

Notice of Allowability

Application No.

10/657,519

Examiner

Jung (John) Hur

Applicant(s)

SMITH ET AL.

Art Unit

2824

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment, filed 24 January 2005.
2. ☒ The allowed claim(s) is/are 1-8, 10-12 and 19-33.
3. ☒ The drawings filed on 08 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



ANH PHUNG
PRIMA EXAMINER

DETAILED ACTION

Amendment

1. Acknowledgment is made of applicant's Amendment, filed 24 January 2005. The changes and remarks disclosed therein were considered.

Claims 9 and 13-18 have been cancelled; claims 25-33 have been added. Therefore, claims 1-8, 10-12 and 19-33 are pending in the application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Dan Hu on 18 April 2005.
4. The application has been amended as follows:
 - In claim 1, line 9, "when" has been replaced with --while--.
 - In claim 12, line 8, "when" has been replaced with --while--.
 - In claim 19, line 7, after "an array of", the word "a" has been deleted.
 - In claim 19, line 14, "prior to" has been replaced with --while--.
 - In claim 23, line 8, "prior to" has been replaced with --while--.

Allowable Subject Matter

5. Claims 1-8, 10-12 and 19-33 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1, 19 and 23, the prior arts of record do not disclose or suggest a memory device, an electronic device or a magnetic storage cell as recited in claim 1, 19 or 23, and particularly, a second set of conductors for applying a voltage across at least one magnetic storage cell for heating at least one magnetic storage cell while writing a bit of data to said at least one magnetic storage cell (i.e., the heating current in the second set of conductors occurs simultaneously with, or at the same time as, the writing current in the first set of conductors).

Regarding claim 12, the prior arts of record do not disclose or suggest a memory device as recited in claim 12, and particularly, a second set of conductors, with a heater element placed in series with the at least one magnetic storage cell, for heating at least one magnetic storage cell while writing a bit of data to said at least one magnetic storage cell (i.e., the heating current in the second set of conductors occurs simultaneously with, or at the same time as, the writing current in the first set of conductors).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung (John) Hur whose telephone number is (571) 272-1870.

The examiner can normally be reached on M-F 6:30 AM - 3:00 PM.

Art Unit: 2824

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jhh



ANH PHUNG
PRIMARY EXAMINER